

CLAIMS

- 1 1. An electric device with a two-wire interface, said two-wire interface serving to
2 deliver electric power to the electric device and to transmit a signal, with the maximum
3 power consumption of the electric device during normal operation being restricted to a
4 predefined upper limit, wherein the permissible power consumption of the electric device
5 is automatically and temporarily increased beyond said predefined upper limit when the
6 electric device is switched into a special operational function mode.

- 1 2. The electric device as in claim 1, wherein a software update and/or a calibration
2 process and/or a diagnostic function and/or a maintenance function is/are considered to
3 constitute a special operational function.

- 1 3. The electric device as in claim 1 or 2, wherein the two-wire interface consists of
2 an analog power input connection with a normal current range from 4 to 20 mA and in
3 the special operational function mode of the electric device, the maximum permissible
4 power consumption is increased to 22 mA.

- 1 4. The electric device as in claim 1 or 2, wherein the two-wire interface is a digital
2 bus connector and in the special operational function mode of the electric device, the
3 maximum permissible power consumption is raised to a value that corresponds to the
4 FDE value of the measuring device.

- 1 5. The electric device as in claim 4, wherein the digital bus connector serves to
2 transmit the signal even while in the special operational function mode of the electric de-
3 vice.

- 1 6. A method for operating an electric device that incorporates a two-wire interface
2 which two-wire interface serves to feed electric power to the electric device while also
3 transmitting a signal, with the maximum power drawn by the electric device via the two-

4 wire interface during normal operation being restricted to a predefined upper limit,
5 wherein as the electric device is switched into a special operational function mode, the
6 permissible maximum power consumption of the electric device is automatically and
7 temporarily increased beyond the predefined upper limit.

1 7. The method as in claim 6, wherein a software update and/or a calibration process
2 and/or a diagnostic function and/or a maintenance function is/are considered to constitute
3 a special operational function.

1 8. The method as in claim 6 or 7, wherein the two-wire interface consists of an ana-
2 log power input connection with a normal current range from 4 to 20 mA and in the spe-
3 cial operational function mode of the electric device, the maximum permissible power
4 consumption is increased to 22 mA.

1 9. The method as in claim 6 or 7, wherein the two-wire interface is a digital bus
2 connector and in the special operational function mode of the electric device, the maxi-
3 mum permissible power consumption is raised to a value that corresponds to the FDE
4 value of the measuring device.

1 10. The method as in claim 9, wherein the digital bus connector serves to transmit the
2 signal even while in the special operational function mode of the electric device.